AleIT Unit 3

Topic 2

# Ch 2, Data Analytics: Drawing Conclusions, Part 1

**Alex Hudson**

**Data types & data structures,** p 121-123

1. **Why is data categorised into types?**

* So the data can easily be processed and analysed.

1. **List some of the most common types. And sub-types.**

Data types

Boolean

String (text)

Character

Numeric

Date/time

Integer

Byte

Long integer

Timestamp

Time

Short integer

Date

Floating point

Double precision

Single precision

1. **Distinguish between how a spreadsheet (Excel) deals with data types compared with a database (Access).**

* A spreadsheet (Excel) essentially guesses what data type to use, and sometimes provides the wrong datatype. While databases do not make assumptions, they are much more organised compared to a spreadsheet and able to correctly get the required data type.

1. **Describe the data structure of a database file.**

* They have formal fields, records and table structures, while spreadsheets such as Microsoft excel do not. They allow for multiple types of data which can be manipulated in a way to effectively present to others so they can understand what the data represents.